

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/043451

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D417/12 C07D417/14 C07D498/04 C07D263/56 C07D271/06
C07D413/12 A61K31/54 A61P17/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2004/000838 A (AXYS PHARM INC 'US!; GRAUPE MICHAEL 'US!; LINK JOHN O 'US!) 31 December 2003 (2003-12-31) Abstract; claims 1, 11, 19-22; examples 1 (page 81), 4 (page 85), 6 (page 87), 7 (pages 88-89), and 11 (page 91). -----	1-18
P, Y	WO 2004/108661 A (AXYS PHARMACEUTICALS; PATTERSON, JOHN, W) 16 December 2004 (2004-12-16) Abstract; claims 1, 5, 18-20; pages 63-64, example 6. ----- -/-	1-18

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

16 June 2005

Date of mailing of the international search report

24/06/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	WO 02/098850 A (AXYS PHARMACEUTICALS, INC; AVENTIS PHARMACEUTICALS INC; GRAUPE, MICHAEL) 12 December 2002 (2002-12-12) Abstract; claims 1, 17-20; examples e.g. page 98, N-(1-benzoxazole-2-carbonyl)-propyl-3-phenylmethanesulfonyl-2-(pyrimidine-2-ylamino)-propaneamide; page 119, no. 24; page 123, no. 26.	1-18
Y	WO 02/20485 A (BOEHRINGER INGELHEIM PHARMACEUTICALS, INC; BEKKALI, YOUNES; HICKEY, EU) 14 March 2002 (2002-03-14) Abstract; claim 1, e.g. fragments A15, A16, A24, and A40.	1-18
Y	WO 03/029200 A (BOEHRINGER INGELHEIM PHARMACEUTICALS, INC) 10 April 2003 (2003-04-10) Abstract; claim 19, e.g. fragments A15, A16, A24, and A40.	1-18

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/043451

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 5-17 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/043451

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 2004000838	A 31-12-2003	AU 2003256305 A1		06-01-2004
		WO 2004000838 A1		31-12-2003
		US 2004127426 A1		01-07-2004
WO 2004108661	A 16-12-2004	WO 2004108661 A1		16-12-2004
WO 02098850	A 12-12-2002	BR 0210912 A		31-08-2004
		CA 2448418 A1		12-12-2002
		CN 1512983 A		14-07-2004
		EP 1397340 A2		17-03-2004
		JP 2004535422 T		25-11-2004
		PL 367128 A1		21-02-2005
		WO 02098850 A2		12-12-2002
		US 2004142999 A1		22-07-2004
WO 0220485	A 14-03-2002	US 6420364 B1		16-07-2002
		AU 4569401 A		22-03-2002
		BG 107585 A		28-11-2003
		BR 0113740 A		24-06-2003
		CA 2417177 A1		14-03-2002
		CN 1471511 A		28-01-2004
		CZ 20030603 A3		18-06-2003
		EA 5203 B1		30-12-2004
		EE 200300093 A		15-02-2005
		EP 1322613 A1		02-07-2003
		HU 0303934 A2		28-04-2004
		JP 2004508356 T		18-03-2004
		MX PA03001947 A		24-06-2003
		NO 20031065 A		07-03-2003
		NZ 525169 A		26-11-2004
		PL 361038 A1		20-09-2004
		SK 2862003 A3		05-08-2003
		US 2002058809 A1		16-05-2002
		WO 0220485 A1		14-03-2002
		US 2003216383 A1		20-11-2003
		US 2004006078 A1		08-01-2004
		US 2003225271 A1		04-12-2003
		US 2003225270 A1		04-12-2003
		US 2003232826 A1		18-12-2003
		US 2002137932 A1		26-09-2002
		US 2005032792 A1		10-02-2005
		US 2005032772 A1		10-02-2005
		ZA 200301032 A		21-04-2004
WO 03029200	A 10-04-2003	CA 2459825 A1		10-04-2003
		EP 1434769 A2		07-07-2004
		JP 2005504827 T		17-02-2005
		WO 03029200 A2		10-04-2003
		US 2004063679 A1		01-04-2004

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